Amendments to the Claims:

1. (Currently Amended) Apparatus for converting power from a power input to an output power supply, which the apparatus comprises comprising:

a resonance converter containing, the resonance converter comprising at least two serial coupled semiconductor switches, wherein:

the semiconductor switches comprise having at least one common output terminal, the one common output terminal is connected to at least one first coil,

the first coil is connected to a first capacitor,

the first coil which is part of a transformer, having

the transformer comprises a second coil connected to rectifier means, which

the rectifier means has its output connected to output terminals, where

a first feedback circuit is connected from connects one of the output terminal terminals to an error amplifier, which

the error amplifier is connected to [[an]] a first input [[at]] of a control circuit, which the control circuit comprises an output that is connected over driver means to [[the]] an input of the semiconductor switches, where the apparatus farther comprises

a second feedback circuit where the second feedback circuit is leading transmits a feedback signal from at least one capacitor(s) Cp the first capacitor, which

the first capacitor is serially connected in-serial to the first coil to an input terminal and to ground, wherein

the second feedback circuit is connected to [[the]] <u>a second</u> input terminal of the control circuit, which

the second input terminal is connected to at least one second capacitor, which the second capacitor is controlling the controls a switching frequency of the semiconductor switches, which

the second feedback circuit emprises a transmits the feedback signal depending on [[the]] an actual change of [[the]] charge over the serial resonance capacitor Cp (19) of the first capacitor in each half period of switching of the first capacitor, which and the feedback signal linearizes the influence of the first feedback circuit.

- 2. (Currently Amended) Apparatus according to claim 1, wherein the second feedback circuit is connected from to the serial resonance first capacitor Cp (19) to at least one through a third capacitor, where and the third capacitor is connected to a fourth at least one further capacitor that is connected to a common ground.
- 3. (Currently Amended) Apparatus according to claim 1, wherein the second feedback circuit contains comprises an inverting amplifier, which and an output of the inverting amplifier is connected to the second input terminal through at least one a capacitor of the at least one second capacitor.
- 4. (Currently Amended) Apparatus according to claim 3, wherein the output from the inverting amplifier is connected to a serial connection of a resistor and a further capacitor of the at least one second capacitor, which and the serial connection [[I]] is coupled in parallel to the eapacitors capacitor and the further capacitor of the at least one second capacitor.
- 5. (Currently Amended) Method for power conversion control in serial resonance switch mode power converters operating in frequency mode at normal operation where, the method comprising the steps of:

<u>converting</u> a first feedback signal, from [[the]] <u>a power</u> output, <u>is converted via an opto-coupler</u> to an input to <u>a</u> switching means, wherein

influencing via a second feedback signal is used to influence the charging and discharging of at least one second capacitor connected to the controlling an oscillating circuit, and where by

with increasing load, changing the mode of operation is changed into a charge mode control by [[a]] the second feedback signal, which

wherein the second feedback signal is based on [[the]] <u>an</u> actual charging current <u>of</u> <u>first serial resonant capacitors</u> and <u>thereby a</u> change in charge in each half period of switching on the <u>first</u> serial resonant capacitor(s)Cp,Cp' <u>capacitors</u>.